

3. Section C - Structure and Fire Data

Item 30. Structure Type

1. Building with one specific property use.
Included are buildings with earthen walls and fabricated roofs.
2. Building with two or more specific property uses.
3. Open structure.
Included are roofs with no walls, open steel framings, bridges, trestles, outdoor process equipment, and outdoor tanks.
4. Air-supported structure.
5. Tent.
6. Open platform.
Included are piers and wharves without superstructure and loading docks without roof.
7. Underground structure.
Included are earth-covered structures, tunnels, and mines.
8. Not a structure.
9. Structure Type not classified above.
0. Structure Type undetermined or not reported.

Item 35. Construction Type:

1. Fire-resistive.
Included are Basic Building Code (BBC) Types 1A, 1B, Southern Building Code (SBC) Type I; and Uniform Building Code (UBC) Type I.
2. Heavy timber.
Included are BBC Type 3A; SBC Type III; and UBC Type III (HT).
3. Protected noncombustible or limited combustible.
Included are BBC Type 2A, 2B; SBC Type II, IV (1 hr.); and UBC Type II, IV (1 hr.).
4. Unprotected noncombustible or limited combustible not qualifying for 3.
Included are BBC Type 2C; SBC Type IV; and UBC Type IV (N).
5. Protected ordinary.
Included are BBC Type 3B; SBC Type V (1 hr.); and UBC Type III (1 hr.).
6. Unprotected ordinary, not qualifying for 5.
Included are BBC Type 3C; SBC Type V; and UBC Type III (N).
7. Protected wood frame.
Included are BBC Type 4A; SBC Type VI (1 hr.); and UBC Type V (1 hr.).
8. Unprotected wood frame, not qualifying for 7.
Included are BBC Type 4B; SBC Type VI; and UBC Type V (N).
9. Construction Type not classified above.
0. Construction Type undetermined or not reported.

Item 36. Construction Method:

1. Site-built structure.
2. Factory-built, site-assembled structure.
3. Factory-built modular structure.
4. Factory-built mobile structure.
9. Construction Method not classified above.
0. Construction Method undetermined or not reported.

Item 42. Type of Material Generating Most Flames:

This category is used to identify the most significant material from a flame or fire development standpoint. Use the classification listing outlined for block 26. Do not necessarily use the same code selected for block 26 or 44.

Item 43. Avenue of Flame Travel:

1. Interior Finish

- 11. Combustible ceiling finish or covering.
- 12. Combustible wall finish or covering.
- 13. Combustible floor finish or covering.
- 14. Combustible ceiling and wall finish or covering.
- 15. Combustible ceiling and floor finish or covering.
- 16. Combustible wall and floor finish or covering.
- 17. Combustible ceiling, wall, or floor finish.
- 19. Interior Finish allowing fire spread not classified above.

2. Structural Factor Allowing Vertical Travel

- 21. Nonenclosed stairwell or elevator shaft.
- 22. Inadequate firestopping.
Included are inside of walls, around pipes, and poke-throughs.
- 23. Air-handling duct.
- 24. Utility shaft or pipe shaft.
- 25. Failure of a rated assembly.
- 26. Exterior spread.
- 27. Floor or ceiling.
- 29. Structural Factor Allowing Vertical Travel not classified above.

3. Structural Factor Allowing Horizontal Travel

- 31. Air-handling duct.
- 32. Attic space, ceiling, or concealed space.
- 33. Door burned through in rated assembly.
- 34. Door open in a rated assembly.
- 35. Corridor or excessive open area.
- 36. Utility opening or pipe opening.
- 37. Window.
- 38. Wall.
- 39. Structural Factor Allowing Horizontal Travel not classified above.

4. Physical Transfer of Material Ignited

- 41. Human being or animal.
- 42. Conveyor or special materials-handling equipment.
- 43. Gravity (fell on).
- 44. Wind.
- 45. Pipeline or material transfer system.
- 49. Physical Transfer of Material Ignited not classified above.

5. Building Contents

- 51. Decoration.
- 52. Furniture or fixture.
- 53. Flammable liquid not properly handled or contained.
- 54. Flammable gas not properly handled or contained.
- 55. Flammable dust or solid chemical.
- 56. Explosive or fireworks.
- 57. Stored material.
- 59. Building Contents not classified above.

9. Other Flame Travel Factor

- 98. No important factor contributing to flame travel.
- 99. Other Flame Travel Factor not classified above.
- 00. Other Flame Travel Factor undetermined or not reported.

Item 44. Type of Material Generating Most Smoke:

This category is used to identify the most significant material from a smoke standpoint. Use the classification listing outlined for block 26. Do not necessarily use the same code selected for block 26 or 42.

Item 45. Avenue of Smoke Travel

The avenue that allowed the smoke to travel beyond the room or area of origin.

- 1. Air-handling duct.
- 2. Corridor.
- 3. Elevator shaft.
- 4. Stairwell.
- 5. Opening in construction.
Included are gaps between slabs and walls and over doors.
- 6. Utility opening.
- 7. Doorway or passageway.
Included are normal openings between rooms.
Excluded are smoke travel in corridors (2) and stairwells (4).
- 9. Avenue of Smoke Travel not classified above.
- 0. Avenue of Smoke Travel undetermined or not reported.

Item 46. Method of Detection (or by whom)

Detected by:

- 01 Occupants.
- 02 Watchman (such as building security, Master at Arms, or firewatch).
- 03 Roving patrol (such as exterior security, station police, or shore patrol).
- 04 Passerby.
- 05 Occupants of neighboring buildings.
- 06 Others.

- 07 Sprinkler system actuation.
- 08 Fire detection system actuation, either smoke or heat.
- 09 Other means.
- 10 Not detected during burning stage.
- 11 ¹Aerospace occupants (pilot/crew).
- 12 ¹Runway alert/patrol.
- 13 ¹Maintenance/support personnel.
- 14 ¹Tower.
- 15 ¹Other.
- 00 Method of detection undetermined or not reported

Item 47. Method of Extinguishment

- 01 Not applicable.
- 02 Self-extinguished or allowed to burn out.

Extinguished before arrival of fire department by:

- 10 Hand or portable fire equipment.
- 11 Direct hydrants or standpipe hose lines.
- 12 Deenergized electrical power.
- 13 Other means (such as dunk in water or baking soda).
- 14 Garden hose.

Extinguished by fire department by:

- 20 Hand or portable fire equipment.
- 21 Preconnected hose line or lines with water carried in apparatus.
- 22 Preconnected hose line or lines with water from hydrants.
- 23 Direct hydrant or standpipe hose lines.
- 24. Hand-laid hose lines from pumpers taking suction from hydrants or surface water.
- 25 Master stream device or devices with or without hand line or lines.
- 26 Deenergized electrical power.
- 27 Other means.
- 30 Extinguished by automatic sprinklers or other built-in extinguishing system.

Extinguished by occupants after control by automatic sprinkler or other built-in extinguishing systems by:

- 40 Hand or portable fire equipment.
- 41 Direct hydrants or standpipe hose lines.
- 42 Other means.

Extinguishing by fire department after control by automatic sprinklers or other built-in extinguishing systems by:

¹ Aircraft-related.

- 50 Hand or portable fire equipment.
- 51 Preconnected hose line or lines with water carried in apparatus.
- 52 Preconnected hose lines or lines with water from hydrants.
- 53 Direct hydrant or standpipe hose lines.
- 54 Hand-laid hose lines from pumpers taking suction from hydrants or surface water.
- 55 Master stream device or devices with or without hand line or lines.
- 56 Other means.

Extinguished by fire departments by (aircraft-related):

- 60 Hand or portable fire equipment from crash apparatus.
- 61 Handlines or turrets or nozzles from crash apparatus.
- 62 Halon system from crash apparatus.
- 63 Twinned agent unit (TAU).
- 64 Other means.
- 00 Method of Extinguishment undetermined or not reported.

Item 49 Most Effective Extinguishing Agent Used

- 0 Water - spray or fog.
- 1. Water - solid stream.
- 2. Water - both 0 and 1.
- 3. AFFF.
- 4. Other foams - protein or high-expansion foam agents.
- 5. Dry chemical.
- 6. Carbon dioxide.
- 7. Halogenated agents (such as Halon 1211 or 1301).
- 8. Water with additives (such as wet water).
- 9. Others (such as combustible metal extinguishing agents).